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Lead-filled neoprene in flexible shield for nuclear

Patent Assignee: PORTER CO INC HK (PORE)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CA 815609	A					196800 B

Priority Applications (No Type Date): US 64364010 A 19640430

Abstract (Basic): CA 815609 A

Flexible nuclear, radiation - shielding material comprises a fabric base covered on pref. both sides with an elastomeric monolayer < 1/8 in. thick, filler with a continuous dispersion of lead particles of < 200 mesh.

The whole material weights 2.5-6 lb/ft². The fabric base is 2.5-10 wt.% of whole and is pref. asbestos cloth, which gives thermal insulation. The filler elastomer constitutes is not < 68 wt.% of the whole. It contains a thickening agent and a 0.5-20 wt.% dispersant for the lead powder. (This cast is 65-95 wt.% of the whole, pref. > 77%). The pref. elastomer is neoprene, which is resistant to corrosion and fairly flame retardant. Coating is pref. by calendering.

For X-rays and fast neutrons having energies 0.5 MeV, esp. in temporary or emergency situations.

Does not crack when folded and so conforms to the shapes of the objects to be shielded. Yet has the shielding power of a lead sheet 1/18 in thick.

Title Terms: LEAD; FILLED; NEOPRENE; FLEXIBLE; SHIELD; NUCLEAR

Derwent Class: A00

File Segment: CPI